	Application No.	Applicant(s)	`
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Notice of Allowability	09/832,807 Examiner	PAWLISZYN ET AL. Art Unit	
	Ling-Siu Choi	1713	
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	ears on the cover sheet with (OR REMAINS) CLOSED in the) or other appropriate communals	nis application. If not included cation will be mailed in due cours	se. THIS he initiative
1. This communication is responsive to the Amendment filed	<u>06/17/2004</u> .		
2. The allowed claim(s) is/are <u>1-7</u> .			
3. The drawings filed on 12 April 2001 are accepted by the E	xaminer.		
 4. Acknowledgment is made of a claim for foreign priority unally all blacks and blacks are all blacks. 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	e been received. e been received in Application	No	om the
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		reply complying with the requiren	nents
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give	nitted. Note the attached EXAM es reason(s) why the oath or d	INER'S AMENDMENT or NOTIC eclaration is deficient.	E OF
6. CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the second sheet.	son's Patent Drawing Review (. s Amendment / Comment or in .84(c)) should be written on the	the Office action of drawings in the front (not the back)) of
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 	sit of BIOLOGICAL MATER FOR THE DEPOSIT OF BIOL	IIAL must be submitted. Note to DGICAL MATERIAL.	ne
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. Interview Sum Paper No./Ma 08), 7. Examiner's Ar	mal Patent Application (PTO-152 mary (PTO-413), ail Date nendment/Comment atement of Reasons for Allowanc	,

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DETAILED ACTION

1. This Office Action is in response to the Remarks filed June 17, 2004. Claims 1-7 are now pending, wherein they are drawn to an apparatus for capillary isoelectric focusing.

Allowable Subject Matter

- 2. Claims 1-7 are allowed.
- 3. The following is an examiner's statement of reasons for allowance:

The present claims are allowable over the closest reference: Johansson et al. [Electrphoresis, 19, 2233-2238 (1998)], Taylor et al. [Anal. Chem. 64, 1741-1744 (1992)], and Yeung et al. (US 5,324,401).

The present invention relates to an apparatus for capillary isoelectric focusing, comprising

(a)	separation capillary filled with a migration medium in which fluorescent analytes migrate or are in stationary equilibrium
(b)	laser light source for axial irradiation of the capillary at one end thereof to excite the florescent analytes
(c)	whole column imaging detection means for mnitoring the isoelectric focusing process

wherein the separation capillary is made of a material having a sufficiently low refractve index that the intensity of laser light scattered from the walls of the separation capillary is negligible relative to the fluorescence of the analytes in the migration medium

(summary of claim 1)

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Johansson et al. disclose an apparatus for capillary electrophoresis comprising axial-beam absorption detection, wherein the probing UV light is introduced at one end of the capillary and shows an exponential fall-off along the capillary (abstract). However, Johansson et al. do not teach or fairly suggest an apparatus for capillary isoelectric focusing having whole column imaging detection means for axial irradiation.

Taylor et al. disclose an apparatus for capillary electrophoresis, comprising axial beam laser excited fluorescence detection (col. 1 of pages 1741; page 1742 and 1743). However, Taylor et al. do not teach or fairly suggest an apparatus for capillary isoelectric focusing having whole column imaging detection means for axial irradiation.

Yeung et al. disclose an apparatus for capillary electrophoresis, comprising laser irradiation of a sample in a plurality of capillaries through optical fibers that are coupled individually with the capillaries and the array being imaged orthogonally through a microscope onto a charge-coupled device camera for signal analysis via fluorescent emission (abstract; claim 1). However, Yeung et al. do not teach or fairly suggest an apparatus for capillary isoelectric focusing having whole column imaging detection means for axial irradiation.

In light of the above discussion, it is evident as to why the present claims are patentable over the prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the 4. examiner should be directed to Ling-Siu Choi whose telephone number is 571-272-1098.

Conclusion

If attempt to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Wu, can be reach on 571-272-1114.

> LING-SUI CHOI PRIMARY EXAMINER

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September 15, 2004

Ling-Siu Choi, Ph.D. **Primary Examiner**

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